

CalESCO

CALIFORNIA EARTH SCIENCE CORPORATION

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Contract NAS 2-7698  
MONTHLY PROGRESS REPORT NO. 17  
November 1974

Fault Tectonics and Earthquake Hazards in the Peninsular  
Ranges, Southern California, EREP Investigation 463

NASA-Lyndon B. Johnson Space Center  
Technical Support Procurement Branch  
Houston, Texas 77058

Attention: Mr. Donald B. Cherry, Mail Stop BB6

Gentlemen:

California Earth Science Corporation (CalESCO) is pleased to submit its 17th  
Monthly Progress Report on the application of Skylab imagery to analysis of  
fault tectonics and earthquake hazards in the Peninsular Ranges, Southern  
California under NASA Contract No. NAS 2-7698.

Summary Outlook

The principal plans for the immediate future are to continue analysis of images  
from SL1/SL2 and SL3. The milestone plan provides a time-oriented schedule  
of the entire effort to be performed.

Significant Progress

1. SL4 S-190A 4X transparencies of Mag. 73, 74, 75, 76, 77, 78, Frames 073/087  
were received and are being analyzed.
2. The SO-192 tapes have been read. The images produced are distorted because  
of the conical scan. Any new tapes ordered from Houston should have the  
lines straightened.
3. The program to generate a test chart for pseudocolor transformation is  
still being debugged.
4. The SL3 190B image of the Peninsular Ranges was sent to Rapidcolor in  
Glendale for color balancing. Considerable improvement was achieved.
5. Work was continued on a technical report describing our analysis of the  
Tract 63 190A images from San Geronio Pass to the Gulf of California,  
including the San Andreas and San Jacinto fault zones.

(E75-10005) FAULT TECTONICS AND  
EARTHQUAKE HAZARDS IN THE PENINSULAR  
RANGES, SOUTHERN CALIFORNIA Montly  
Progress (California Earth Science Corp.,  
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semination of Earth Resources Survey  
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for any use made thereof."

6. Abstracts of two papers describing significant results under Skylab and ERTS investigations were submitted to the Cordilleran meeting of the Geological Society of America in March, 1975, Los Angeles. Copies of these abstracts were included with our 16th progress report dated October 5, 1974.

#### Expected Accomplishments, Current Month

1. Pseudocolor transformations of the computer generated test charts will be produced.
2. Work on current technical reports will be continued
3. Field work will be resumed on the northeast-trending lineaments of the Peninsular ranges.

#### Travel Summary and Plans

The annual meeting of the Association of Engineering Geologists was attended 17-18 October in Denver. Two abstracts of papers describing significant results under Skylab and ERTS investigations were not received in time to be accepted. Several days will be spent in the field near Julian, California.

Very truly yours,

CALIFORNIA EARTH SCIENCE CORP.

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